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PREPARATION OF PAPER FOR JOURNAL OF THE HEALTH MONITORING WEB APPLICATION

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ABSTRACT-Clinical mistakes are commonly pricey and dangerous. They precipitated a large number of deaths international annually. A scientific selection guide machine gives the possibility to reduce scientific mistakes and additionally to enhance affected person protection. Truely one of the most crucial factors in applying this type of machine is the prognosis and therapy for diseases. This is because statistics show that a ailment is one of the top-quality factors in the back of deaths at some point of the world. Facts mining strategies are pretty effective in designing medical assist systems and having the potential to find out hidden patterns and relationships in scientific data. Until now, data mining classification strategies is implemented to investigate the distinctive varieties of based totally issues. This paper is aimed toward developing a disorder prediction system the usage of information mining clustering techniques. As massive amount of records is produced in medical associations, but this data is not properly utilized. The fitness care gadget is "records rich" however "know-how negative". This healthcare data can be used to extract understanding for similarly ailment prediction. Currently data mining strategies are widely utilized in clinical professional structures for prediction of various sicknesses. Those strategies find out the hidden relationships and styles of the healthcare statistics. Disease is a time period for outlining a massive quantity of healthcare situations which can be associated with the sickness. Distinct statistics mining strategies such as affiliation rule mining, category, clustering are used to predict the ailment in fitness care enterprise. The disease database is preprocessed to make the mining manner extra efficient. The diagnosis of sicknesses is a essential and difficult task in medicine. The popularity of sickness from numerous capabilities or signs and symptoms is a multilayered trouble that isn't free from fake assumptions and is regularly accompanied with the aid of hasty consequences. Thus an try to exploit expertise and revel in of numerous specialists and clinical screening data of patients composed in databases to assist the prognosis system is appeared as a first rate mission. The healthcare enterprise gathers large amounts of disease facts that lamentably, aren't mined to determine hid information for powerful diagnosing.

Keywords: Controller, User profiles, Dashboard, Analytics, Web application, Health metrics, Activity tracking, Real-time data

I. INTRODUCTION

Data mining is process of extracting useful information from large amount of databases. The data mining techniques are useful for predicting the various diseases in the medical field. Cardiovascular diseases are one of the highest- flying diseases of the modern world1. According to world health organization about more than 12 million deaths occurs worldwide, every year due to heart problems. It is also one of the fatal diseases in India which causes maximum casualties. The diagnosis of this disease is intricate process. It should be diagnosed accurately and correctly. Due to limitation of the potential of the medical experts and their unavailability at certain places put their patients at high risk. Normally, it is diagnosed using intuition of the medical specialist. It would be highly advantageous if the techniques will be integrated with the medical information system. Disease prediction plays an important role in data mining. Healthcare organizations can reduce costs by accomplishment of computer based data and/or decision support systems. Healthcare services data is very huge as it incorporates patient records, resource management information and updated information. Human services associations must have capacity to break down information. Treatment records of many patients can be stored away in computerized way; furthermore data mining methods may help in finding out a few vital and basic inquiries related with healthcare organizations. There are various reasons for the occurrence of Heart Diseases, which can be frequently investigated through the Attribute Set related to different test results of Patients. The different sources of medical data are Medical Analysis, Diagnostic Centres, past Case Sheets, Doctor Prescriptions. Heart diseases can be predicted through the analysis made on some attributes like age, sex, chest pain type, blood pressure, cholesterol, fasting blood sugar, Maximum heart rate achieved. Based on the values of the attributes, we make indexes for all associated frequent item sets. The presence of these item sets depends on the threshold value specified. Data mining techniques like K-means clustering algorithm is used for validating the accuracy of medicinal data. These algorithms can be used to optimize the data storage for practical and legal purposes.

II. LITERATURE REVIEW

There are three different supervised machine learning algorithms for heart complaint vaticination. They're Naïve Bayes, K- nearest neighbour, and Decision tree. Tanagra is the data mining tool used for classifying these medical data and these data are calculated using 10 fold cross confirmation. Naive Bayes algorithm performs well when compared to other algorithms. inheritable algorithm has been used in, to reduce the definite data size to gain the stylish possible subset of trait which is essential for heart complaint vaticination. Bracket is supervised literacy system to prize models relating main classes of data. Decision Tree, Naïve Bayes and Bracket via clustering are the three classifiers used to dissect the circumstance of heart complaint for the cases. Shekar et al proposed new algorithm to mine association rules from medical data grounded on number sequence and clustering for heart attack vaticination the entire data base is divided into partitions of equal size, each partition will be called cluster. This approach reduces main memory demand since it consider only a small cluster at a time and it's scalable and effective

III. PROPOSED METHODOLOGY

In proposed system first it selects an trait for opting a subset of attributes with good prognosticating capability. If an trait has further than 5 missing values also the records shouldn't be deleted and it's judicious to impute. While K- Means is a good option(presto, robust and easier to understand) for original hunt capability but it did not work well with global clusters. Indeed its performance isun-consistent at different original partitions, it produce different results at different original partitions.

INPUT DESIGN

Input design is the process of converting the stoner- acquainted. Input to a computer grounded format. The thing of the input design is to make the data entry easier, logical and free error. crimes in the input data are controlled by the input design.

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All the data entry screen are interactive in nature, so that the stoner can directly enter into data according to the urged dispatches. The stoner are also can directly enter into data according to the urged dispatches. The druggies are also handed with option of opting an applicable input from a list of values. This will reduce the number of error, which are else likely to arise if they were to be entered by the stoner itself.

Input design is the process where the input entered in the system are planned and designed, so as to get necessary information from the stoner, barring the information that isn't needed. The end of the input design is to insure the maximum possible situations of delicacy and also ensures that the input is accessible that understood by the stoner. The input design is the part of overall system design, which requires veritably careful attention. If the data going into the system is incorrect also the processing and affair will magnify the crimes.

The objects considered during input design are

- Nature of input processing.
- Inflexibility and thoroughness of confirmation rules.
- running of parcels within the input documents.
- Screen design to insure delicacy and effectiveness of the input relationship with lines.

• Careful design of the input also involves attention to error running, controls, batching and confirmation procedures.

Input design features can insure the trustability of the system and produce result from accurate data or they can affect in the product of incorrect information.

External reality

An external reality is a source or destination of a data inflow, which is outside the area of study. Only those realities, which appear or admit data, are represented on a business process illustration. The symbol used is an round containing a meaningful and unique identifier.

Process

A process shows a metamorphosis or manipulation of data flows within the system. The symbol used is a blockish box, which contains 3 descriptive rudiments originally an identification number appears in the upper left hand corner. This is allocated arbitrarily at the top position and serves as a unique reference.

Data Flow

A data inflow is represented by a line, with arrowheads showing the direction of inflow.

Data Store

A data store is a holding place for information within the system It's represented by an open concluded narrow cube. Data stores may be long- term lines similar as deals checks, or may be short- term accumulations for illustration batches of documents that are staying to be reused.

Resource Flow

A resource inflow shows the inflow of any physical material from its source to its destination. For this reason they're occasionally appertained to as physical overflows. Resource overflows are generally confined to beforehand, high- position plates and are used when a description of the physical inflow of accoutrements is considered to be important to help the analysis.

AFFAIR DESIGN

The affair form of the system is either by screen or by hard clones. Affair design aims at communicating the results of the processing of the druggies. The reports are generated to suit the requirements of the druggies. The reports have to be generated with applicable situations. In our design labors are generated by asp as html

runners. As its web operation affair is designed in a veritably stoner-friendly this will be through screen utmost of the time.

LAW DESIGN

The main purpose of law design is to simplify the coding and to achieve better performance and quality with free of crimes. The coding is prepared in such a way that the internal procedures are more meaningful confirmation director is displayed for each column. The coding of the variables is done in such a way that one other than person who developed the packages can understand its purpose.

To reduce the garçon cargo, the design is designed in a way that utmost of the confirmation of fields is done as customer side confirmation, which will be more effective.

DATABASE DESIGN

The database design involves creation of tables that are represented in physical database as stored lines. They've their own actuality. Each table constitute of rows and columns where each row can be viewed as record that consists of affiliated information and column can be viewed as field of data of same type.

The database design of design is designed in such a way values are kept without redundancy and with regularized format.

RESULTS AND DISCUSSION

All the tests should be traceable to client conditions the focus of testing will shift precipitously from programs total testing isn't possible To be more effective testing should be which has probability of chancing crimes

The attrributes of good test are,

- 1. A good test has a probability of chancing a crimes
- 2. A good test should be "stylish of types "
- 3. A good test to neither simple nor too complex

OUTPUT

imple	nor too complex	
	Fig 1 User Log	gin
	An Intelligent Heart Disease Prediction System	using datamining
	Home Docker Hogeler Docker Loge	
	Login	
	Padoward	
	Logn Register	

Fig 2 User Register

DE A

Decister	
Register	
Name	
Erral	
Phone	
Usemame	
Passeord	
Register	

Fig 3 Adding Attributes

Age:
Gender:
rregin.
Heght
Heart beat rate:
Pulse rate:
Blood pressure level:
Sugar level:
Abdeded land
Whether you have smoking habits:
Minutery you have you also you way to be
Fig 4Analyse report
Report
Contract land Contract land
Participant Participant

Name	ram	
Age	29	
Gender	male	
Weight	85	
Height	180	
Pulse rate	110	Serious Problem
	110	Normal
BP	110	

Fig 5 Doctor registration



Fig 6 Doctor Login



Fig 7 View Patient History

An Intelligent Heart Disease Prediction System using datamining Peteret Heavy Petermance Report Logost	
Actor Name App Genome Yeight Height Table Bit Sugar Desistance Sugar Desistance Height Height	
Fig 8 Performance Report	
Grade fram	
Protects with ages-20 have 60% charace of greating head thicases	

CONCLUSION

we are proposing heart complaint vaticination system using naïve bayes and k- means clustering. We're using k- means clustering for adding the effectiveness of the affair. This is the most effective model to prognosticate cases with heart complaint. This model could answer complex queries, each with its own strength with respect to ease of model interpretation, access to detailed information and delicacy. In similar way I've learned about the big data and its parcels, with its challenges and issues. In the medical field I learn about the colorful parameters those are affecting to the heart. bettered K- Means is the algorithm which is showing the delicacy in the centroid selection further than the simple K- means. The proposed system gave the most accurate result whether the case had the possibility of the heart complaint. This system can also be used in unborn systems to descry the specific type of heart complaint in particular. Thereby the opinion & operation of Heart complaint can be made simpler.

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